

NEW BIBRANCHED COMPOUND AND PREPARATION THEREOF

Publication number: JP6321848

Publication date: 1994-11-22

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Applicant: INST FRANCAIS DU PETROLE

Classification:






- international: **B01J31/22; B01J31/24; C07B61/00; C07C51/353;
C07C51/36; C07C53/126; C07C57/03; C07C67/303;
C07C67/347; C07C69/24; C07C69/30; C07C69/533;
C07C69/587; C10M105/24; C10M105/34; C10M105/38;
B01J31/16; C07B61/00; C07C51/347; C07C53/00;
C07C57/00; C07C67/00; C07C69/00; C10M105/00;
(IPC1-7): C07B61/00; C10M105/24; C10M105/34;
C10M105/38; C07C53/126; B01J31/22; B01J31/24;
C07C51/36; C07C57/03; C07C67/303; C07C69/24;
C07C69/30; C07C69/533; C07C69/587**

- European: C07C51/353; C07C53/126; C07C67/347; C07C69/587

Application number: JP19940086545 19940425

Priority number(s): FR19930004923 19930423

Also published as:

 EP0621257 (A1)
 US5434282 (A1)
 FR2704223 (A1)
 EP0621257 (B1)
 ES2108949T (T3)

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Abstract not available for JP6321848

Abstract of corresponding document: **EP0621257**

A description is given of a new family of chemical compounds, resulting from fats, having on the linear chain two branchings containing two carbon atoms and corresponding to the general formula $C_{21}H_{39}COOR$ in which R represents a hydrogen atom, a lower alkyl radical or a glyceryl radical. Consideration is more particularly given, among these compounds, to those which correspond to the formulae: (C₂H₅)
2C₁₇H₂₉COOR (I) (C₂H₅)(C₂H₄)C₁₇H₃₀COOR (II) and (C₂H₅)(C₂H₃)C₁₇H₃₁COOR (III) and to those which derive from the above by partial or complete hydrogenation and which correspond to the formulae: (C₂H₅)2C₁₇H₃₁COOR (IV) (C₂H₅)(C₂H₄)C₁₇H₃₂COOR (V) and (C₂H₅)2C₁₇H₃₃COOR (VI). The compounds of formulae (I), (II) and (III) can be obtained by addition of ethylene to compounds mainly comprising doubly-unsaturated C₁₈ fatty acids or lower alkyl or glyceryl esters of these acids, in particular oils of plant origin, in the presence of a catalytic system containing anionic rhodium of type $[RhX_4] \leftrightarrow YR^4$ where X is an anion, preferably a halide anion, Y is a nitrogen atom $N \leftrightarrow$ or a phosphorus atom $P \leftrightarrow$ and R' is preferably a hydrocarbon group. The compounds of the invention can be used especially in compositions based on lubricating agents (lubricants) or emulsifying agents.

